		Exploring Aeron	autics			
		2008 Mathema				
A vima v a Balada a va ati a a		Grade Level Articu	ulations			
Arizona Mathematics Grade 5						
Activity/Lesson	State	Standards				
Activity/Lesson	State	Standards	Solve problems involving the area of 2-			
			dimensional figures by using the properties of			
Wings(177, 208)	AZ	MA.5.4.4.PO 4	parallelograms and triangles.			
Wings(177-208) The Resource Center	AZ	MA.5.1.1.PO 3	Locate integers on a number line.			
The Resource Center	AZ	IVIA.3. 1. 1.FU 3	Compare and order positive fractions, decimals,			
The Resource Center	AZ	MA.5.1.1.PO 4	and percents.			
The Resource Center	<u> </u>	IVIA.3.1.1.1 O 4	Collect, record, organize, and display data using			
Science of Flight	AZ	MA.5.2.1.PO 1	multi-bar graphs or double line graphs.			
ocience of ringin	<i></i>	WA.3.2.1.1 0 1	Formulate and answer questions by interpreting			
			and analyzing displays of data, including multi-			
Science of Flight	AZ	MA.5.2.1.PO 2	bar graphs or double line graphs.			
Ocience of Flight	NZ	W/A.J.Z. 1.1 O Z	Summarize mathematical information, explain			
Science of Flight	AZ	MA.5.5.2.PO 6	reasoning, and draw conclusions.			
Colonico or ringrit	7 12	1717 (1.0.0.2.1 0 0	Make and test conjectures based on data or			
			information collected from explorations and			
Science of Flight	AZ	MA.5.5.2.PO 8	experiments.			
Integrating with	7 12	1717 (.0.0.2.1 0 0	ехрениено.			
Aeronautics	AZ	MA.5.1.1.PO 3	Locate integers on a number line.			
Integrating with	7 12	1717 (10.11.11)	Compare and order positive fractions, decimals,			
Aeronautics	AZ	MA.5.1.1.PO 4	and percents.			
Integrating with			Use ratios and unit rates to model, describe and			
Aeronautics	AZ	MA.5.1.1.PO 5	extend problems in context.			
			Apply the associative, commutative, and			
Integrating with			distributive properties to solve numerical			
Aeronautics	AZ	MA.5.1.2.PO 4	problems.			
			Make estimates appropriate to a given situation			
Integrating with			or computation with whole numbers, fractions,			
Aeronautics	AZ	MA.5.1.3.PO 1	and decimals.			
Scientific Method(124-			Collect, record, organize, and display data using			
144)	AZ	MA.5.2.1.PO 1	multi-bar graphs or double line graphs.			
			Formulate and answer questions by interpreting			
Scientific Method(124-			and analyzing displays of data, including multi-			
144)	AZ	MA.5.2.1.PO 2	bar graphs or double line graphs.			
Scientific Method(124-			Use mean, median, mode, and range to analyze			
144)	AZ	MA.5.2.1.PO 3	and describe the distribution of a given data set.			
			Analyze relationships among representations			
Scientific Method(124-		:	and make connections to the multiplication			
144)	AZ	MA.5.2.3.PO 1	principle of counting.			
Scientific Method(124-	. 7	NAA 5 5 0 DO 0	Summarize mathematical information, explain			
144)	AZ	MA.5.5.2.PO 6	reasoning, and draw conclusions.			
		Exploring Aeron	autics			
		2008 Mathema				
Grade Level Articulations						
Arizona Mathematics						
Grade 6						

Activity/Lesson	State	Standards				
			Compare and order integers; and positive			
The Resource Center	AZ	MA.6.1.1.PO 4	fractions, decimals, and percents.			
			Use benchmarks as meaningful points of			
The Resource Center	AZ	MA.6.1.3.PO 1	comparison for rational numbers.			
			Formulate and answer questions by interpreting,			
			analyzing, and drawing inferences from displays			
			of data, including histograms and stem-and-leaf			
Science of Flight	AZ	MA.6.2.1.PO 2	plots.			
			Use data collected from multiple trials of a single			
			event to form a conjecture about the theoretical			
Science of Flight	AZ	MA.6.2.2.PO 1	probability.			
<u> </u>			Isolate and organize mathematical information			
			taken from symbols, diagrams, and graphs to			
			make inferences, draw conclusions, and justify			
Science of Flight	AZ	MA.6.5.2.PO 7	reasoning.			
			Ü			
			Make and test conjectures based on information			
Science of Flight	AZ	MA.6.5.2.PO 8	collected from explorations and experiments.			
Integrating with			Express that a number's distance from zero on			
Aeronautics	AZ	MA.6.1.1.PO 5	the number line is its absolute value.			
Integrating with			Make estimates appropriate to a given situation			
Aeronautics	AZ	MA.6.1.3.PO 2	and verify the reasonableness of the results.			
			Solve problems by selecting, constructing, and			
Integrating with			interpreting displays of data, including			
Aeronautics	AZ	MA.6.2.1.PO 1	histograms and stem-and-leaf plots.			
			Formulate and answer questions by interpreting,			
			analyzing, and drawing inferences from displays			
Integrating with			of data, including histograms and stem-and-leaf			
Aeronautics	AZ	MA.6.2.1.PO 2	plots.			
Integrating with	,		Use an algebraic expression to represent a			
Aeronautics	AZ	MA.6.3.3.PO 1	quantity in a given context.			
, 10.01.0.0.0		in meneral control	Solve problems by selecting, constructing, and			
Scientific Method(124-			interpreting displays of data, including			
144)	AZ	MA.6.2.1.PO 1	histograms and stem-and-leaf plots.			
,	,		Formulate and answer questions by interpreting,			
			analyzing, and drawing inferences from displays			
Scientific Method(124-			of data, including histograms and stem-and-leaf			
144)	AZ	MA.6.2.1.PO 2	plots.			
,	,		Use extreme values, mean, median, mode, and			
Scientific Method(124-			range to analyze and describe the distribution of			
144)	AZ	MA.6.2.1.PO 3	a given data set.			
,			Use data collected from multiple trials of a single			
Scientific Method(124-			event to form a conjecture about the theoretical			
144)	AZ	MA.6.2.2.PO 1	probability.			
Scientific Method(124-	- -	1111 110121211 0 1	Analyze a problem situation to determine the			
144)	AZ	MA.6.5.2.PO 1	question(s) to be answered.			
,	- -	1111 110101211 0 1	queensing) to be anonered.			
	I	Exploring Aeron	autics			
2008 Mathematics						
Grade Level Articulations						
Arizona Mathematics						
Grade 7						
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Activity/Lesson	State	Standards	
			Compare and order rational numbers using
The Resource Center	AZ	MA.7.1.1.PO 3	various models and representations.
			Isolate and organize mathematical information
			taken from symbols, diagrams, and graphs to
			make inferences, draw conclusions, and justify
Science of Flight	AZ	MA.7.5.2.PO 7	reasoning.
			Recognize and convert between expressions for
			positive and negative rational numbers,
Integrating with			including fractions, decimals, percents, and
Aeronautics	AZ	MA.7.1.1.PO 1	ratios.
Integrating with			Compare and order rational numbers using
Aeronautics	AZ	MA.7.1.1.PO 3	various models and representations.
710101144400	, <u></u>		Solve problems with rational numbers and
Integrating with			appropriate operations using exact answers or
Aeronautics	AZ	MA.7.1.2.PO 2	estimates.
Integrating with	72	IVIA.7.1.2.1 0 2	Commutes.
Aeronautics	AZ	MA.7.1.3.PO 2	Make estimates appropriate to a given situation.
ACIONAULICS	AZ	IVIA.7.1.3.FU 2	Interpret trends in a data set, estimate values for
late anotice with			
Integrating with	A 7	MA 7 0 4 DO 0	missing data, and predict values for points
Aeronautics	AZ	MA.7.2.1.PO 2	beyond the range of the data set.
0 :			Solve problems by selecting, constructing, and
Scientific Method(124-			interpreting displays of data including multi-line
144)	AZ	MA.7.2.1.PO 1	graphs and scatterplots.
			Interpret trends in a data set, estimate values for
Scientific Method(124-			missing data, and predict values for points
144)	AZ	MA.7.2.1.PO 2	beyond the range of the data set.
			Isolate and organize mathematical information
			taken from symbols, diagrams, and graphs to
Scientific Method(124-			make inferences, draw conclusions, and justify
144)	AZ	MA.7.5.2.PO 7	reasoning.
		Exploring Aeron	
		2008 Mathema	
Arizona Mathematics		Grade Level Articu	liations
Grade 8			
Activity/Lesson	State	Standards	
Activity/Lesson	State	Standards	Compare and order real numbers including very
			large and small integers, and decimals and
The December	A 7	MA 0 1 1 DO 1	
The Resource Center	AZ	MA.8.1.1.PO 1	fractions close to zero.
TI D 0 1	. 7		Estimate the location of rational and common
The Resource Center	AZ	MA.8.1.3.PO 2	irrational numbers on a number line.
			Isolate and organize mathematical information
			taken from symbols, diagrams, and graphs to
	1		make inferences, draw conclusions, and justify
Science of Flight	AZ	MA.8.5.2.PO 7	reasoning.
			Compare and order real numbers including very
Integrating with			large and small integers, and decimals and
Aeronautics	AZ	MA.8.1.1.PO 1	fractions close to zero.
Integrating with			Use the Pythagorean Theorem to solve
Aeronautics	AZ	MA.8.4.1.PO 4	problems.

			Use the Pythagorean Theorem to find the
Integrating with			distance between two points in the coordinate
Aeronautics	AZ	MA.8.4.3.PO 2	plane.
Integrating with			Solve geometric problems using ratios and
Aeronautics	AZ	MA.8.4.4.PO 2	proportions.
			Solve logic problems involving multiple
Integrating with			variables, conditional statements, conjectures,
Aeronautics	AZ	MA.8.5.2.PO 10	and negation using words, charts, and pictures.
Integrating with			Verify the Pythagorean Theorem using a valid
Aeronautics	AZ	MA.8.5.2.PO 13	argument.
			Determine whether information is represented
			effectively and appropriately given a graph or a
			set of data by identifying sources of bias and
Scientific Method(124-			compare and contrast the effectiveness of
144)	AZ	MA.8.2.1.PO 4	different representations of data.
Scientific Method(124-			
144)	AZ	MA.8.2.1.PO 5	Evaluate the design of an experiment.
			Isolate and organize mathematical information
			taken from symbols, diagrams, and graphs to
Scientific Method(124-			make inferences, draw conclusions, and justify
144)	AZ	MA.8.5.2.PO 7	reasoning.
Scientific Method(124-			Make, validate, and justify conclusions and
144)	AZ	MA.8.5.2.PO 12	generalizations about linear relationships.